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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of **Peter Francis Leadlay, et al.**
Application No. 09/980,217
Attorney Docket No. 0380-P02746US0
Filed: May 6, 2002
For: POLYKETIDES AND THEIR SYNTHESIS
Examiner: Kathleen M. Kerr
Group Art Unit: 1652

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

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March 7, 2005
Date of Certificate

Lynn C. Fischer
Lynn C. Fischer

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**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith a Form PTO-1449 listing certain patent and other documents which the Examiner is respectfully requested to consider and make of record in this application. This Information Disclosure Statement is being filed more than three months after the filing date of this application, and after receipt of the first Official Action on the merits, but before receipt of a Final Official Action or a Notice of Allowance. Accordingly, the fee required under 37 C.F.R. 1.97(c) is enclosed. In the event that any additional fee is required in connection with this submission and not enclosed, the Commissioner is authorized to charge such fee to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.

In the opinion of the undersigned, the references submitted herewith are the most pertinent of which the undersigned is aware. However, no representation is

made or intended that more pertinent references do not exist.

This submission is not an admission that the references listed on the attached Form PTO-1449 constitute prior art against the claims of this application.

The Examiner is respectfully requested to confirm receipt and consideration of the cited references by initialing and returning a copy of the attached Form PTO-1449 in accordance with MPEP §609.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,

DANN, DORFMAN, HERRELL & SKILLMAN
A Professional Corporation
Attorneys for Applicant(s)

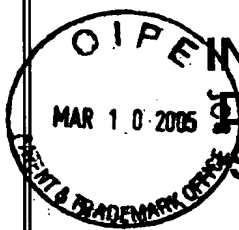
By Patrick J. Hagan
Patrick J. Hagan
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Enclosures - Form PTO-1449

Copies of references listed on PTO - 1449



INFORMATION DISCLOSURE STATEMENT

SHEET 1 OF 2

Complete if known

Application Number: 09/980,217

Filing Date: May 6, 2002

First Named Inventor: Peter Francis Leadlay, et al.

Group Art Unit: 1652

Examiner Name: Kathleen M. Kerr

Attorney Docket Number: 0380-P02746US0

UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR

FOREIGN PATENT DOCUMENTS

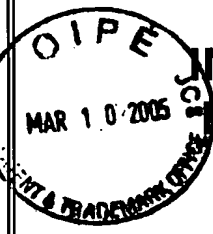
EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
	B1	WO 98/01546	PCT	01-15-1998	Biotica Technology Limited
	B2	WO 98/49315	PCT	11-05-1998	Kosan Biosciences, Inc.
	B3	WO 00/00500	PCT	01-06-2000	Biotica Technology Limited

OTHER PRIOR ART - NON-PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	DAY, L.E., et al., "Biosynthesis of Monensin", Antimicrobial Agents Chemother., 4: 410-414 (1973).
	C2	CANE, D.E., et al., "Polyether biosynthesis. Origin of the oxygen atoms of Monensin A", J. Am. Chem. Soc., 103: 5962-5965 (1981).
	C3	CANE, D.E., et al., "Polyether biosynthesis 2. Origin of the oxygen atoms of Monensin A", J. Am. Chem. Soc., 104: 7274-7281 (1982).
	C4	AJAZ, A.A., et al., "The utilization of oxygen atoms from molecular oxygen during the biosynthesis of Monensin-A", J. Chem. Soc. Chem. Commun., 12: 679-680 (1983).
	C5	WESTLEY, J.W., et al., "Biosynthesis of Lasalocid. II. X-Ray analysis of a naturally occurring isomer of Lasalocid A", J. Antibiot., 27: 597-604 (1974).
	C6	SOOD, G.R., et al., "Biosynthesis of the Polyether Antibiotic Monensin-A. Incorporation of [2- ² H ₂]-, (R)-[2- ² H ₁]- and (S)-[2- ² H ₁]-Propionate", J. Chem. Soc. Chem. Commun., 21: 1421-1423 (1984).
	C7	ASHWORTH, D.M., et al., "Selection of a Specifically Blocked Mutant of Streptomyces Cinnamomensis: Isolation and Synthesis of 26-Deoxymonensin A", J. Antibiot., 42: 1088-1099 (1989).

EXAMINER'S SIGNATURE	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

 INFORMATION DISCLOSURE STATEMENT	<i>Complete if known</i>	
	Application Number: 09/980,217	
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	Group Art Unit: 1652	
Examiner Name: Kathleen M. Kerr		Attorney Docket Number: 0380-P02746US0
SHEET <u>2</u> OF 2		

	C8	POSPISIL, S., et al., "3-O-Demethylmonensins A and B produced by Streptomyces Cinnamomensis", J. Antibiot., 40: 555-557 (1987).
	C9	HOLMES, D.S., et al., "27. Synthesis of putative intermediates on the monensin biosynthetic pathway and incorporation experiments with the monensin-producing organism", Helv. Chim. Acta, 73: 239-259 (1990).
	C10	WALBA, D.M., et al., "Total synthesis of ionophores. The monensin bc-rings via permanganate promoted stereospecific oxidative cyclization", Tetrahedron Lett., 21: 3531-3534 (1980).
	C11	TOWNSEND, C.A., et al., "Experiments and speculations on the role of oxidative cyclization chemistry in natural product biosynthesis", Tetrahedron, 47: 2591-2602 (1991).
	C12	WIETZORREK, A., et al., "A novel family of proteins that regulates antibiotic production in streptomycetes appears to contain an OmpR-like DNA-binding fold", Mol. Microbiol., 25: 1181-1184 (1997).
	C13	DONOVAN, M.J., et al., "Isolation of DNA involved in Monensin biosynthesis by Streptomyces cinnamomensis", Abstr. Annu. Meet. Am. Soc. Microbiol., 88 Meet., p. 261 (1988).
	C14	ARROWSMITH, T.J., et al., "Characterization of actI- homologous DNA encoding polyketide synthase genes from the monensin producer Streptomyces cinnamomensis." Molecular and General Genetics, 234: 254-264 (1992).
	C15	MALPARTIDA, F., et al., "Homology between Streptomyces genes coding for synthesis of different polyketides used to clone antibiotic biosynthetic genes", Nature, 325: 818-821 (1987).
	C16	HOPWOOD, D.A., et al., "Genetic contributions to understanding polyketide synthases", Chemical Reviews, 97: 2465-2497 (1997).
	C17	ZERBE-BURKHARDT, K., et al., "Cloning, sequencing, expression and insertional inactivation of the gene for the large subunit of the coenzyme B12-dependent isobutyryl-CoA mutase from Streptomyces cinnamomensis." Journal of Biological Chemistry, 273: 6508-6517 (1998).
	C18	ROWE, C.J., et al., "Construction of new vectors for high-level expression in actinomycetes", Gene, 216: 215-223 (1998).

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